New York **Grade 5**

LineUp With Math™ Alignment
New York SED Math Standards

Problem Solving Strand

Students will solve problems that arise in mathematics and in other contexts.

Standard	***LineUp With Math™* Activities**
5.PS.7 Represent problem situations verbally, numerically, algebraically, and/or graphically	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Students will apply and adapt a variety of appropriate strategies to solve problems.

Standard	***LineUp With Math™* Activities**
5.PS.13 Model problems with pictures/diagrams or physical objects	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
5.PS.17 Determine what information is needed to solve problems.	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.

Communication Strand

Students will communicate their mathematical thinking coherently and clearly to peers, teachers, and others.

Standard	***LineUp With Math™* Activities**
5.CM.4 Share organized mathematical ideas through the manipulation of objects, numerical tables, drawings, pictures, charts, graphs, tables, diagrams, models, and symbols in written and verbal form	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Connections Strand

Students will recognize and apply mathematics in contexts outside of mathematics.

Standard	***LineUp With Math™* Activities**
5.CN.7 Apply mathematics to problem situations that develop outside of mathematics	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
5.CN.8 Investigate the presence of mathematics in careers and areas of interest.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Representation Strand	
Students will create and use representations to organize, record, and communicate mathematical ideas.	
Standard	***LineUp With Math™* Activities**
5.R.1 Use physical objects, drawings, charts, tables, graphs, symbols, equations, or objects created using technology as representations	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
Students will select, apply, and translate among mathematical representations to solve problems.	
Standard	***LineUp With Math™* Activities**
5.R.5 Use representations to explore problem situations	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
Students will use representations to model and interpret physical, social, and mathematical phenomena.	
Standard	***LineUp With Math™* Activities**
5.R.7 Use mathematics to show and understand physical phenomena (e.g., determine the perimeter of a bulletin board)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Measurement Strand	
Students will use units to give meaning to measurements.	
Standard	***LineUp With Math™* Activities**
5.M.7 Calculate elapsed time in hours and minutes	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.